

## Claims

1. Rear-view mirror for vehicles, preferably motor vehicles said rear-view mirror comprising a mirror housing which comprises an EC mirror glass, which can be darkened in case of the appearance of glare light by means of a switching device having a sensor, said rear-view mirror being characterized in that the switching device (20) comprises at least one light guide (8,8') using which at least the glare light (4) can be fed to the sensor (7).
2. Rear-view mirror, especially according to claim 1, characterized in that the switching device (20) comprises at least an additional light guide (8,8') using which the ambient light (5) can be fed to the sensor (7).
3. Rear-view mirror according to claim 1 or 2, characterized in that both the light guides (8,8') are guided separate from one another up to the sensor (7)
4. Rear-view mirror according to claim 1 or 2, characterized in that both the light guides (8, 8') have a common light emission surface (14), which is turned towards the sensor (7).
5. Rear-view mirror according to any of the claims 1 to 4, characterized in that the light flux of at least one light guide (8, 8') can be switched off.
6. Rear-view mirror according to claim 5, characterized in that at least one optical switch (9) is provided for switching off the light flux.
7. Rear-view mirror according to claim 6, characterized in that the optical switch (9) is located inside the light guide (8, 8').

8. Rear-view mirror according to claim 6, characterized in that the optical switch (9) is arranged in front of the light emission surface (15, 16) of the light guide (8, 8').
9. Rear-view mirror according to claim 6, characterized in that the optical sensor (9) is provided between the light emission surface (10, 11) of the light guide (8, 8') and the sensor (7).
10. Rear-view mirror according to any of the claims 6 to 9, characterized in that the optical switch (9) can be switched on and off periodically.
11. Rear-view mirror according to any of the claims 6 to 10, characterized in that the optical switch (9) is formed by a mechanical system such as apertures, displaceable grid, rotating mirror or the like.
12. Rear-view mirror according to any of the claims 6 to 10, characterized in that the optical switch (9) is formed by an LCD element.
13. Rear-view mirror according to any of the claims 6 to 10, characterized in that the optical switch (9) is formed by ferroelectric liquid crystals.